

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at page 5, line 22 to page 6, line 3, with the following amended paragraph:

Figure 1. Amino acid comparison of the intracellular receptor regions (“loops”) of the human Kv1.2 (“hKv1.2”), human Kv1.3 (“hKv1.3”), human Kv1.4 (“hKv1.4”), human Kv1.5 (“hKv1.5”), human Kv1.6 (“hKv1.6”) and human Kv3.4 (“hKv3.4”) are shown in alignment with human Kv1.1 (“hKv1.1”). The black boxes indicate sequence identity; shaded boxes indicate conservative amino acid substitutions. The intracellular receptor regions of hKv1.1, hKv1.2, hKv1.3, hKv1.4, hKv1.5, hKv1.6, and hKv3.4 are designated as hKv1.1LOOP (SEQ ID NO:1), hKv1.2LOOP (SEQ ID NO:1), hKv1.3LOOP (SEQ ID NO:1), hKv1.4LOOP (SEQ ID NO:2), hKv1.5LOOP (SEQ ID NO:24), hKv1.6LOOP (SEQ ID NO:24), and hKv3.4LOOP (SEQ ID NO:25), respectively.

Please replace the paragraph beginning at page 6, line 5, with the following amended paragraph:

Figure 2. Amino acid comparison of the amino-terminal inactivation regions (“N”) of the human Kv β 1b (“hKv β 1b”; also known as “hKv β 1.2”), human Kv β 1c (“hKv β 1c”; also known as “hKv β 1.3”), human Kv β 3 (“hKv β 3”), human Kv1.4 (“hKv1.4”), and human Kv3.4 (“hKv3.4”) are shown in alignment with human Kv β 1 (“hKv β 1”). The black boxes indicate sequence identity; shaded boxes indicate conservative amino acid substitutions. The amino-terminal inactivation regions of hKv β 1, hKv β 1b, hKv β 3, hKv3.4, hKv β 1c, and hKv1.4 are designated as hKv β 1N (SEQ ID NO:5), hKv β 1bN (SEQ ID NO:26), hKv β 3N (SEQ ID NO:26), hKv3.4N (SEQ ID NO:27), hKv β 1CN (SEQ ID NO:28), and hKv1.4N (SEQ ID NO:6), respectively.

AMENDMENTS TO THE SEQUENCE LISTING

Please replace the paper copy of the Sequence Listing with the attached substitute paper copy of the Sequence Listing. Please replace the computer readable form of the Sequence Listing with the attached substitute copy of the computer readable form of the Sequence Listing.

In the substitute paper copy and the substitute computer readable form of the Sequence Listing, new SEQ ID NOS:24-28 have been added. SEQ ID NOS:24-28 depict hKv1.5LOOP (and hKv1.6LOOP), hKv3.4LOOP, hKv β 1bN (and hKv β 3N), hKv3.4N, and hKv β 1CN, respectively. These sequences are supported at least by Figures 1 and 2 of the present application.

Attachments: Substitute Paper Copy of the Sequence Listing
 Substitute Computer Readable Form of the Sequence Listing